

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01208446
PUBLICATION DATE : 22-08-89

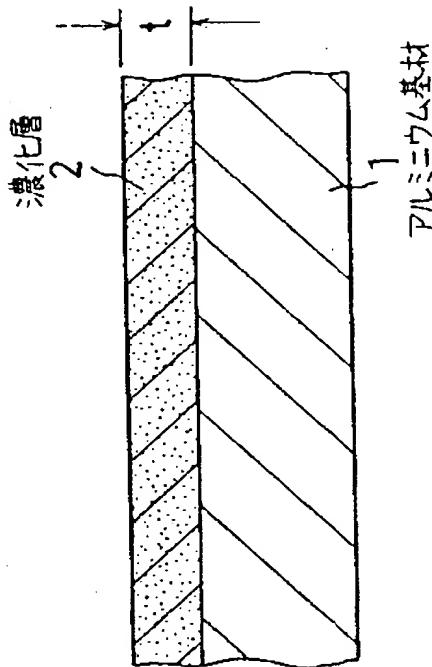
APPLICATION DATE : 17-02-88
APPLICATION NUMBER : 63034542

APPLICANT : SHOWA ALUM CORP;

INVENTOR : SUKIMOTO KISHIN;

INT.CL. : C23C 4/00 C23C 4/06 G21C 19/40
G21F 3/00

TITLE : NEUTRON-ABSORPTIVE ALUMINUM
ALLOY



ABSTRACT : PURPOSE: To manufacture the title material having desired mechanical characteristics by covering the surface of an aluminum matrix with a concentrated layer of neutron-absorptive elements.

CONSTITUTION: The surface of the matrix 1 consisting of aluminum or its metal is covered and formed with the neutron-absorptive elements (B, Sm, Gd, etc.,) or its compounds (B_4C , etc.,) by a thermal spraying method, etc. The thickness of the concentrated layer 2, (t), is preferably regulated to $50\text{--}1000\mu$. By this method, the neutron-absorptive aluminum material having the desired characteristics such as strength and workability can be obtd.

COPYRIGHT: (C)1989,JPO&Japio